

DESCRIPTIONS OF NEW AUSTRALIAN LEPIDOPTERA.

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BOMBYCINA.

COSMOTRICHE (?) BRACHYCERA, n. sp.

Male, 40 mm. Head, palpi, legs, thorax, and abdomen dark fuscous; thorax with a transverse darker fuscous transverse stripe, edged posteriorly with ochreous. Abdomen with ochreous whitish hairs on anterior and middle segments. Antennæ white, biciliated with tufts of pale yellow hairs; at greatest length one and a half, apex of antennæ simple. Forewings elongate triangular; costa straight, hindmargin obliquely rounded, dark fuscous, dusted throughout with whitish, so as to appear ashy-grey-whitish; two well-marked black lines from one-fourth of costa to one-fourth inner-margin, strongly curved outwards on upper half; two well-marked black lines from four-fifth of costa to just before anal angle, hardly denticulate, but with a slight projection outwards in middle and just beneath costa. A triangular semi-hyaline discal spot in middle of wing, partly edged with black; cilia whitish, chequered with black at extremities of veins. Hindwings white, hairs of inner-margin blackish, costal edge blackish; cilia white, partly chequered with black. One specimen at Broken Hill in November. Not unlike *Bombyx mioleuca*, Meyr., but the curious antennæ are quite different, besides shape of wing.

GEOMETRINA.

HYDRIOMENIDÆ.

MICRODES TYPHOPA, n. sp.

Female, 22 mm. Head, antennæ, palpi, and thorax dark fuscous. Abdomen fuscous, with blackish segmental rings. Legs fuscous, sprinkled with whitish; tibiæ and tarsi blackish, ringed with white. Forewings moderate, dilated posteriorly; costa gently arched, hindmargin somewhat bowed, oblique; smoky fuscous, becoming whitish on median band; a slightly curved moderate transverse whitish fascia near base, containing a finer line of ground colour in middle throughout; anterior margin of median band edged by a similar fascia from one-

fourth of costa to one-fourth inner-margin, edged internally by a fine line of black; posterior margin of band edged by a similar, internally black-edged fascia from beyond three-fourths of costa to just before anal angle, with sharp projection outwards beneath costa, and another less pointed in middle, the fascia edged throughout externally by a line of ochreous-brown; subterminal slenderly white, indented beneath costa; a black hindmarginal line cut by veins into spots; cilia fuscous, somewhat chequered with blackish towards base. Hindwings with hindmargin hardly waved, fuscous, lighter towards base; several darker fuscous, somewhat indistinct waved transverse lines; three below middle more pronounced; cilia greyish. Markings of hindwings reproduced more clearly beneath. One specimen; Semaphore, S. Australia, in December.

SELIDOOSEMIDÆ.

PARALCÆA MARITIMA, n. sp.

Male, 33 mm. Head, palpi, and thorax dark ashy-grey fuscous. Thorax with a large, dense, bifid, posterior crest. Palpi long. Antennæ ochreous-fuscous; pectinations three to apex. Abdomen grey. Legs fuscous; posterior pair whitish. Forewings elongate-triangular; costa strongly arched at base, thence nearly straight; hindmargin hardly oblique, somewhat crenulate, slightly angulated in middle, ashy-grey-whitish, densely and finely transversely strigulated throughout with darker; a thin, obscure, cuneiform mark of pale whitish-fuscous from costa at about two-thirds, reaching half across wing; a fine, blackish, interrupted hindmarginal line; cilia ashy grey-whitish. Hindwings white, with slight projections on veins four and seven, waved on upper half, lower half nearly straight, three and four from a point, grey-whitish; a more or less suffused-fuscous hindmarginal band, becoming obsolete towards anal angle; hindmarginal line as in forewings; cilia white. Underside of hindwings silvery-white, with a large, black, apical spot. One specimen at Exeter, S. Australia, in June (at light). In Mr. Meyrick's generic description the apex of the antennæ is said to be simple; in the present species the ciliations reach the apex, although extremely short at that point.

NOCTUINA.

NOCTUIDÆ.

AGROTIS CALLIMERA, n. sp.

Male and female, 38-40 mm. Head and face pale-ochreous. Palpi ochreous; second joint thickly infuscated on sides

externally. Thorax and antennæ ferruginous-brown ; ciliations about one-half. Legs greyish ; tibiæ spinose ; tarsi fuscous, ringed with ochreous-white. Abdomen greyish-ochreous, clothed with whitish hairs on anterior segments. Forewings elongate, moderate ; costa nearly straight ; hindmargin oblique, ferruginous-brown, in some specimens becoming olive-greenish ; all veins more or less outlined with whitish ; a dull, leaden, reniform spot at end of cell, upper lobe more or less internally whitish ; a transverse row of blackish points on veins from about three-fourths of costa to three-fourths of inner margin ; a moderately broad, silvery-whitish hindmarginal band ; a hindmarginal row of black points ; cilia chestnut-brown. Hindwings and cilia pale creamy-ochreous. Five specimens at Exeter, S. Australia, in March. Although somewhat variable, it is an easily recognised species. Mr. Meyrick, to whom I submitted the species, returned it as unknown to him.

AGROTIS GYPSINA, n. sp.

Male, 34 mm. Head, thorax, palpi, abdomen, and legs white ; tibiæ spinose, fuscous, tarsi ringed with white. Antennæ fuscous, shortly ciliated, about one-half. Forewings elongate, moderate ; costa nearly straight, hindmargin oblique ; white ; three short oblique blackish dashes on costa—one near base, one at one-fourth, and one beyond middle—first one more or less continued half across wing as a zigzag line ; a transverse row of fine black points from about three-quarters of costa to three-quarters inner-margin ; a yellow reniform spot at end of cell, cut by a fine black line, and suffused beneath with fuscous ; a hindmarginal row of blackish dots. Hindwings and cilia white, a hindmarginal row of small black lunules. Two specimens taken by Mr. Harold Lower at Exeter, South Australia, in March.

HYPENIDÆ.

HYPENA MESOCHRA, n. sp.

Female, 30 mm. Head, antennæ, thorax, and palpi ochreous fuscous, slightly reddish tinged ; palpi nearly five times as long as width of eye ; grey-whitish beneath on lower half. Abdomen and legs grey, slightly ochreous tinged beneath. Forewings elongate triangular, costa slightly sinuate beneath apex, bowed outwards in middle, thence oblique ; ochreous fuscous ; a faintly indicated fuscous median band broadest on upper half, margins waved ; anterior edge from one-third costa to one-third inner-margin ; posterior edge from beyond two-thirds of costa to just beyond middle of inner-margin, faintly edged with lighter ochreous ; two fine blackish dots transversely placed at end of cell, a curved row of ill-defined fuscous dots from five-sixths costa

to just before anal angle, posteriorly edged with whitish dots; a hindmarginal row of fuscous dots between veins; cilia ochreous, slightly reddish-fuscous tinged. Hindwings with hindmargin waved; pale greyish ochreous, fuscous tinged; a denticulate fuscous line from beyond middle of costa to just beyond middle of inner-margin; a similar parallel, less distinct, yet thicker, line beyond; interspace clearer greyish ochreous; hindmarginal area suffused with ochreous fuscous; hindmarginal dots and cilia as in forewings. One specimen; Gisborne, Victoria, in January. Quite distinct from any other species of the genus that I have met with.

TINEINA.

ÆCOPHORIDÆ.

PHLÆOPOLA PYROCENTRA, n. sp.

Male, 20 mm. Head, thorax, and antennæ fuscous. Antennal ciliations one and a-half. Palpi whitish. Legs greyish, banded with fuscous; posterior pair wholly grey. Abdomen grey. Forewings moderate, elongate, costa gently arched, hindmargin obliquely rounded; dark fuscous, with a broad, fleshy-red, suffused, longitudinal streak through middle of wing, becoming blotch-like towards hindmargin; two or three very suffused blackish spots on upper edge, a short, fuscous streak at one-third from base, placed on band; cilia fuscous. Hindwings and cilia fuscous. One specimen, Broken Hill, N.S.W., in April. A curious-looking and distinct insect. The palpi are rather short for this genus.

PHILOBOTA MONADELTA, n. sp.

Female, 25 mm. Head, palpi, and thorax orange-yellow. Second joint of palpi externally fuscous on apical half. Thorax with a narrow, dark-purplish-fuscous anterior band. Antennæ fuscous. Abdomen greyish. Legs greyish; posterior pair yellowish. Forewings elongate, moderate; costa gently arched, apex round-pointed, hindmargin oblique; bright yellow; a small, irregular, dark-fuscous patch on anal angle; cilia yellow, tips fuscous-tinged, becoming fuscous on anal spot. Hindwings dark-fuscous, becoming lighter towards base, hairs at base yellow; cilia fuscous, mixed with yellow round anal angle. One specimen near Sydney in December (Coll. Lyell). Rather an abnormal-looking species, recalling a large specimen of *Microbela epicona*, Meyr.

PELTOPHORA (?) LEUCOPLACA, n. sp.

Female, 18 mm. Head and palpi snow-white, second joint of palpi infuscated externally, especially towards base. Thorax

fuscous, with a large white quadrate spot on posterior half. Antennæ and legs whitish, posterior legs ochreous. Abdomen greyish ochreous. Forewings elongate, moderate; costa gently arched, apex round pointed, hindmargin obliquely rounded, brownish ochreous; a large snow-white blotch at base, extending along inner-margin to about one-third, and only separated from costa by a line of ground colour; a suffused erect white triangular spot on inner-margin at anal angle; a similar, but more oblique, one from costa just before apex, nearly touching apex of previous spot; a small suffused, whitish spot on middle of costa; a minute fuscous dot in apical white spot; cilia ochreous-brownish, median third white. Hindwings greyish-ochreous; cilia pale-yellowish; underside of wings more yellowish tinged. In the present species, which is doubtfully referred to *Peltophora*, veins 3, 4, and 5 of forewings are closely approximated, yet separately at base—a rather unusual character in this group. The hindwings are normal. The antennal pecten is not traceable, having apparently been denuded. One specimen at Mackay, Queensland, in December.

OROPHIA MARMOREA, n. sp.

Male, 17 mm. Head, thorax, palpi, and antennæ white; antennal ciliations two, terminal joint of palpi hardly more than half of second. Abdomen greyish. Legs grey, posterior pair whitish. Forewings elongate, moderate; costa gently arched, apex hardly pointed, hindmargin oblique, white, markings ochreous brown; a narrow, somewhat indistinct costal streak, attenuated at base; a suffused indistinct line, commencing at base in middle and ending just near apex, a well-defined discal spot at one-third of this streak, a second obliquely below it; a moderately thick fascia from costa at apex to anal angle, strongly indented inwards in median portion; a row of blackish fuscous interrupted spots along hindmargin and apical fourth of costa; cilia pale yellowish. Hindwings and cilia grey, cilia yellowish tinged at base. One specimen at Mackay, Queensland, in April. This species partakes somewhat the characters of both *Saropla*, Meyr., and *Orophia*, Meyr., but seemingly distinct from either by the palpi.

CESYRA ARGYRASPIIS, n. sp.

- Female, 15 mm. Head, palpi, and thorax ochreous-orange. Legs and abdomen greyish. Forewings moderate, elongate; costa hardly arched, apex somewhat pointed; hindmargin oblique, dull-ochreous-orange, with silvery-white markings; a somewhat broad costal streak from base to apex and right through cilia, attenuated towards base; three elongate, hardly connected spots in middle of wing, first narrowly elongate, attenuated at base,

second and third in a direct line with first, obcordate, apices turned towards hindmargin; a narrow streak along inner margin, continued along hindmargin and ending immediately below apex; cilia ochreous-fuscous, terminal-half grey whitish. Hindwings greyish-fuscous; cilia grey, basal-half fuscous. One specimen in November at Bulimba, Queensland. Recalls typical species of *philobota* in markings.

GELECHIADÆ.

GELECHIA HEMICHLÆNA, n. sp.

Female, 10 mm. Head and thorax whitish. Abdomen greyish. Palpi white, terminal joint fuscous, acute. Legs greyish. Antennæ two-thirds. Forewings narrow, apex hardly pointed, hindmargin oblique; white; markings cloudy-fuscous; a suffused, inwardly-oblique, narrow fascia, reaching half across wing, space between this and base, suffusedly-fuscous, occupying lower half of wing, space towards hindmargin lighter fuscous; five or six suffused costal spots on apical third of wing, separated by small spots of ground colour; an irregular mark at apex; cilia fuscous, with a dark fuscous median line. Hindwings with termen sinuate, light-greyish-fuscous; cilia greyish. One specimen, Broken Hill, in November.

GELECHIA MONOLEUCA, n. sp.

Female, 18 mm. Head, palpi, antennæ, and thorax black; antennæ somewhat serrate. Abdomen grey, posterior half black, anal tuft whitish. Legs blackish, middle tibiæ ringed with whitish, posterior legs with tufts of white hairs at base of joints, tibiæ wholly whitish. Forewings elongate, moderate, costa gently arched, apex rounded, hindmargin obliquely rounded; black, somewhat shining; a moderate well defined snow-white spot in middle of wing at two-thirds from base; various minute whitish spots along veins, scarcely perceptible; a hindmarginal row of minute whitish dots; cilia black. Hindwings with termen not sinuate, six and seven stalked, greyish, blackish tinged, except at base; cilia fuscous. One specimen taken at Gosford, N.S.W. (Coll. G. Lyell, jun.)

GELECHIA (?) MICROMELA, n. sp.

Female, 10 mm. Head, thorax, abdomen, and legs black; palpi yellowish, second joint fuscous externally on basal half. Antennæ thickened, ochreous, somewhat infuscated. Forewings moderate, rather short, costa gently arched; shining deep purple blackish, without markings, seven to apex; cilia blackish. Hindwings blackish, thinly scaled; three and four long stalked, six and seven stalked; cilia as in forewings. Doubtfully referable

to *Gelechia*. Vein 7 can hardly be said to terminate on costa, more correctly the apex. The stalking of veins 3 and 4 of the hindwings would remove it from the *Gelechiadæ* altogether, but as the species partakes very much of the facies of a *Gelechia*, I place it here until I obtain more material. Superficially it reminds one of the genus *Petalanthès*, one of the *Ecophoridæ*. One specimen; Gisborne, Victoria.

GELECHIA DESMATRA, n. sp.

Male, 9 mm. Head, palpi, antennæ, and thorax ochreous-whitish. Abdomen and legs fuscous. Forewings moderate; costa hardly arched, apex rounded, whitish; a broad, thick, fuscous, transverse fascia from middle of costa to middle of inner margin, dilated on costa; two fuscous, more or less elongate, marks on costa beyond this; apical fourth of wing tinged with fuscous, and becoming darker on hindmargin, and containing a row of small fuscous dots around apex and hindmargin; cilia ochreous. Hindwings and cilia fuscous. One specimen, Broken Hill, in November.

GELECHIA OMBRODES, n. sp.

Male and female, 10 mm. Head snow-white, palpi white, second joint externally golden ochreous, except apex. Antennæ fuscous, with small fine pecten. Ciliations one. Thorax golden ochreous. Abdomen greyish. Legs ochreous brown. Forewings snow-white; a narrow ochreous brown fascia at base; a broad ochreous brown transverse fascia from three-quarters of costa to anal angle, slightly dilated on costa and inner-margin, a light ochreous-brown suffusion on apical portion of hindmargin, continued as a fine line along hindmargin to anal angle; cilia greyish ochreous, becoming darker round anal angle. Hindwings and cilia grey. Two specimens taken at Rockhampton in middle of November. This species will require a new genus. I have not yet sufficient material for dissection, but the neurulation of the forewings, so far as can be made out, is as follows:—Vein one is extremely long furcate, in fact the fork reaches half the length of the cell; veins two and three are stalked, seven and eight are stalked, seven terminating on costa. The hindwings are normal, excepting that six and seven are extremely short stalked.

GELECHIA MICRADELPHA, n. sp.

Female, 10 mm. Head, palpi, antennæ, legs, and thorax yellow. Posterior legs with a black band on tibiæ (abdomen broken). Forewings elongate, moderate, narrow; costa nearly straight, hindmargin oblique, hardly sinuate beneath apex, orange-yellow; a small blackish spot on costa at one third from

base; a broad, purplish-fuscous, hindmarginal band, occupying one-third of wing, anterior edge darker, and slightly curved outwards; a yellowish, elongate spot on costal portion of band; cilia fuscous, at base becoming yellowish. Hindwings with termen sinuate, dark-fuscous; cilia nearly one-half, fuscous. One specimen, taken at Broken Hill, N.S.W., in November. Nearest *porphyrloma*, Lower, but differs by the smaller size, different shaped hindmarginal band, and costal spot.

ANARSIA DRYINOPA, n. sp.

Female, 12 mm. Head, palpi, antennæ, thorax, and legs ashy-grey-whitish. Terminal joint of palpi whitish, with blackish ante-apical band. Antennæ annulated with white. Thorax more whitish, with an apparent fuscous, median stripe. Abdomen greyish. Forewings elongate, rather narrow; costa gently arched, apex pointed, hindmargin oblique; ashy-grey-whitish, mixed with fuscous and dark fuscous; markings very obscure; three short, blackish, outwardly oblique, costal spots between base and middle; various black and whitish short dashes towards hindmargin; a blackish, crescentic mark from inner margin at one-fourth, curved round to base beneath costa; cilia fuscous. Hindwings somewhat broader than forewings, termen slightly sinuate, grey; cilia greyish. One specimen from Broken Hill, N.S.W., in October. Nearest *inodes*, Meyr., but smaller, and differently marked; it is not unlike *Gelechia aversella*, Walk.

ANARSIA (?) HOLOMELA, n. sp.

Female, 10 mm. Head, thorax, abdomen, antennæ, palpi, and legs blackish. Antennæ two-thirds, second joint of palpi with a dense loose triangular tuft of hairs; terminal joint as long as second, strongly recurved. Forewings elongate, moderate, costa gently arched, apex rounded, hindmargin obliquely rounded, seven and eight stalked, seven to costa, three and four stalked; black, with hardly perceptible scattered minute blackish spots; an irregular blackish hindmarginal line; cilia light fuscous. Hindwings fuscous, termen slightly sinuate, six and seven stalked; cilia about one-third, fuscous. One specimen; Broken Hill, in June.

ARISTOTELIA (?) MONOSTROPHA, n. sp.

Female, 13 mm. Head, palpi, thorax, and legs greyish; face whitish. Antennæ whitish; ciliations one, with pecten. Second joint of palpi not tufted. Forewings lanceolate, moderately broad; ochreous-brown; a broad, somewhat suffused-white streak from base to apex, broadest in middle, extremities attenuated; a dark-fuscous dot in middle, resting on lower portion of streak; cilia greyish. Hindwings greyish; cilia ochreous-grey. One

specimen in March, Broken Hill, N.S.W. Similar in appearance to *epispila*.

ARISTOTELIA (?) EPISPILA, n. sp.

Female, 12 mm. Head, palpi, antennæ, and legs greyish-fuscous. Apex of second joint of palpi whitish. Posterior legs grey; abdomen broken. Forewings linear, apex pointed; pale-brownish; a broad, whitish, longitudinal streak from base to apex, occupying upper half of wing throughout; two dark fuscous dots, one before and one beyond middle of disc, placed on upper edge of ground colour; some suffused fuscous spots towards hindmargin; cilia grey. Hindwings linear, termen sinuate, whitish; cilia nearly two, colour as in forewings. One specimen, Parkside, S. Australia, in March. I am not quite certain as to the correct location of this species; for instance, veins seven and eight of forewings appear to run out of six, which is unusual in this genus.

YPSOLOPHUS DRYINODES, n. sp.

Female, 25 mm. Head, palpi, thorax, legs, and antennæ fuscous; palpi darker-fuscous on sides; second joint grey-whitish above. Abdomen greyish. Forewings moderate; costal gently arched, hindmargin oblique; fuscous, with innumerable, darker-fuscous, minute dots, more pronounced along costa and veins towards hindmargin, where they appear in longitudinal rows; there also appears to be three oblique, transverse rows of similar spots from one-fourth of costa to about one-fourth inner margin; one from middle of costa to before middle of inner margin; another from near three-fourths of costa to beyond middle of inner-margin; veins two and three stalked; cilia reddish-fuscous. Hindwings and cilia fuscous. Three specimens at Brisbane in December.

EUTORNA (?) NIPHODES, n. sp.

Female, 10 mm. Head, antennæ, palpi, and thorax white; second joint of palpi infuscated beneath. Abdomen grey-whitish. Forewings linear, apex pointed; white, tinged with ochreous towards apical third; a black dot in disc at one-third, another obliquely beyond and below; a third, larger, in middle of disc at two-thirds; a row of three or four black dots along apical fourth of costa; an obscure blackish dot at anal angle. Hindwings grey; cilia three, whitish. One specimen, Gisborne(?), Victoria, in March.

EUTORNA STRATIMERA, n. sp.

Male, 12 mm. Head, antennæ, palpi, thorax, abdomen, and legs dark fuscous; antennæ biserrate, very shortly ciliated; hairs

of upper portion of second joint of palpi white. Forewings linear, apex pointed; dark ashy-grey-whitish; a narrow whitish line along costa from base to apex, finely attenuated along apical three-fifths; extreme edge of costa black at base; cilia fuscous. Hindwings fuscous; cilia one and a half; greyish-fuscous. One specimen, Belair, S. Australia, in November.

CLEODORA EUMELA, n. sp.

Female, 12 mm. Head, palpi, thorax, abdomen, antennæ, and legs black; second joint of palpi with a dense projecting tuft, terminal as long as second, recurved. Forewings moderate, elongate; costa gently arched, apex hardly pointed; hindmargin oblique, seven and eight to costa; black, with faint indications of a few blackish scattered dots in disc and along hindmargin; cilia fuscous-grey. Hindwings slightly sinuate beneath apex; blackish, becoming lighter towards base; cilia as in forewings. One specimen from Stawell, Victoria, in December.

POGONIAS (?) *LEUCOMA*, n. sp.

10 mm. Head, palpi, and thorax snow-white. Antennæ fuscous, white at base. Abdomen and legs greyish. Forewings narrow; costa nearly straight, apex hardly pointed, fuscous; a broad, suffused-white, longitudinal streak from base to middle, thence curved up to costa near apex, sharply defined on basal half, somewhat suffused beyond; a small, elongate, blackish mark in situation of white streak; cilia greyish-fuscous. Hindwings narrow, fuscous; cilia three, greyish-fuscous. One specimen at light, Mackay, Queensland, in August.

POGONIAS CAPNOPA, Lower.

In my original description, the abdomen of this species was not described. Having obtained an additional specimen, I am enabled to complete the same. The description should read:—"Abdomen fuscous, ochreous in middle." The cilia of the hindwings have an ochreous tinge in the specimen before me, which I captured at Broken Hill, N.S.W., in April.

PLUTELLIDÆ.

PLUTELLA OCHRONEURA, n. sp.

Female, 16 mm. Head, thorax, antennæ, palpi, and legs ochreous-white. Abdomen greyish. Forewings rather narrow; costa gently arched, apex pointed, whitish; all veins outlined with pale-ochreous-yellow, giving the appearance of being ochreous-white; cilia ochreous, at apex becoming ochreous-white. Hindwings lanceolate-linear, whitish; cilia two and a-half, whitish. One specimen, Semaphore, S.A., in November.

TINEIDÆ.

ERECHTHIAS POLYSPILA, n. sp.

Male, 8-10 mm. Head black, face and crown white; palpi, thorax, and antennæ blackish; second joint of palpi whitish above. Legs fuscous, posterior pair greyish. Forewings linear, apex pointed, dark fuscous, with whitish markings; a short straight, fine streak from base in middle to one-sixth; a similar shorter, but somewhat thicker one, immediately following, but slightly above; a fine streak along inner-margin from base to anal angle, finely attenuated on posterior third; a fine irregular oblique fascia from just before three-fourths of costa to anal angle, touching end of preceding streak; a rather thick short fascia from costa just before apex, reaching about half across wing; a round black spot at apex, encircled by dull whitish; cilia fuscous, whitish at base, and with a blackish median line. Hindwings and cilia fuscous. One specimen, Parkside, S. Australia, in October.

